BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of CC road in Ward No. 04 Yelahanka Satellite town sub division

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	Yelahnak New Town								
	Cross Rd - 1		1	178.00	1.10	0.95	186.01		
	Cross Rd - 2		1	190.00	1.10	0.90	188.10		
							374.11	215.28	**80538.40**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For RCC Drain	Cum							
	Yelahnak New Town								
	Cross Rd - 1		1	178.00	1.10	0.15	29.37		
	Cross Rd - 2		1	190.00	1.10	0.15	31.35		
	For Road								
	Yelahnak New Town								
	Behind Anjaneya temple -1		1	64.00	3.60	0.15	34.56		
	Behind Anjaneya temple -2		1	33.00	4.80	0.15	23.76		
							119.04	5421.90	**645422.98**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Bottom slab								
	Yelahnak New Town								
	Cross Rd - 1		1	178.00	0.90	0.15	24.03		
	Cross Rd - 2		1	190.00	0.90	0.15	25.65		
	side walls								
	Yelahnak New Town								
	Cross Rd - 1		2	178.00	0.15	0.60	32.04		
	Cross Rd - 2		2	190.00	0.15	0.60	34.20		
							115.92		

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
					Net Qty.		**115.92**	7070.20	**819577.58**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain @ 60 kg / cum	Tonne		115.92	0.060	--	6.96		
							6.96	73992.24	**514630.83**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							
5	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	Yelahnak New Town								
	Cross Rd - 1		1	178.00	0.90	--	160.20		
	Cross Rd - 2		1	190.00	0.90	--	171.00		
							331.20	2337.00	**774014.40**
	Data Rate Rs. =	2337							
6	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 metrers, stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202.(I No-18.47,P No-140) Loading and unloading with 8km lead								
	For Concrete Road	Cum							
	Yelahnak New Town								
	Behind Anjaneya temple -1		1	64.00	3.60	0.20	46.08		
	Behind Anjaneya temple -2		1	33.00	4.80	0.20	31.68		
							77.76	973.42	**75693.14**
	Basic Rate Rs.=	899.00							
	Add 6% A.W Rs. =	53.94							
	Sub Total =	952.94							
	8Km Lead, Loading and Unloading =(2*1.28*8)	20.48							
	Total Rate Rs. =	**973.42**							
7	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead= (I No-19.14,P No-143) Loading and unloading with 8km lead								
	Debris/ Loose soil	Cum							
	Yelahnak New Town								
	Behind Anjaneya temple -1		1	64.00	3.60	0.10	23.04		
	Behind Anjaneya temple -2		1	33.00	4.80	0.10	15.84		
							38.88	63.94	**2485.99**

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Basic Rate Rs.=	41.00							
	Add 6% A.W Rs. =	2.46							
	Sub Total =	43.46							
	8Km Lead, Loading and Unloading =(2*1.28*8)	20.48							
	Total Rate Rs. =	**63.94**							
8	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	For Concrete Road	Cum							
	Cut portion restoration								
	Yelahnak New Town								
	Behind Anjaneya temple -1		1	64.00	1.50	0.15	14.40		
	Behind Anjaneya temple -2		1	33.00	1.00	0.15	4.95		
							19.35	1994.92	**38601.70**
	Basic Rate Rs.=	1882.00							
	Add 6% A.W Rs. =	112.92							
	Total Rate Rs. =	**1994.92**							
9	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	Yelahnak New Town								
	Behind Anjaneya temple -1		1	64.00	3.60	0.15	34.56		
	Behind Anjaneya temple -2		1	33.00	4.80	0.15	23.76		
							58.32	5421.90	**316205.21**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
10	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-176,I No-22.6.1)								
	For Concrete Road	Cum							
	Yelahnak New Town								
	Behind Anjaneya temple -1		1	64.00	3.60	0.15	34.56		
	Behind Anjaneya temple -2		1	33.00	4.80	0.15	23.76		
							58.32	5210.96	**303903.19**
	Basic Rate Rs.=	4916.00							
	Add 6% A.W Rs. =	294.96							
	Total Rate Rs. =	**5210.96**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
							Sub Total 1 Rs.		3571073.41
	Add GST @ 12%								428528.81
							Sub Total 2 Rs.		3999602.22
	Miscellaneous & Rounding off								397.78
								Total Rs.	4000000.00

CERTIFICATE:

1 The work spot has been inspected by me and the work is found to be necessary

2 The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 21-10-201 9and Data Rates

3 The Provisions made in the estimate are quite necessary and adequate.

4 The area comes with in the BBMP limits.

Assistant Engineer	Assistant Executive Engineer	Executive Engineer
Ward 04	Yelahanka Newtown Sub Division	Yelahanka Division
BBMP	BBMP	BBMP

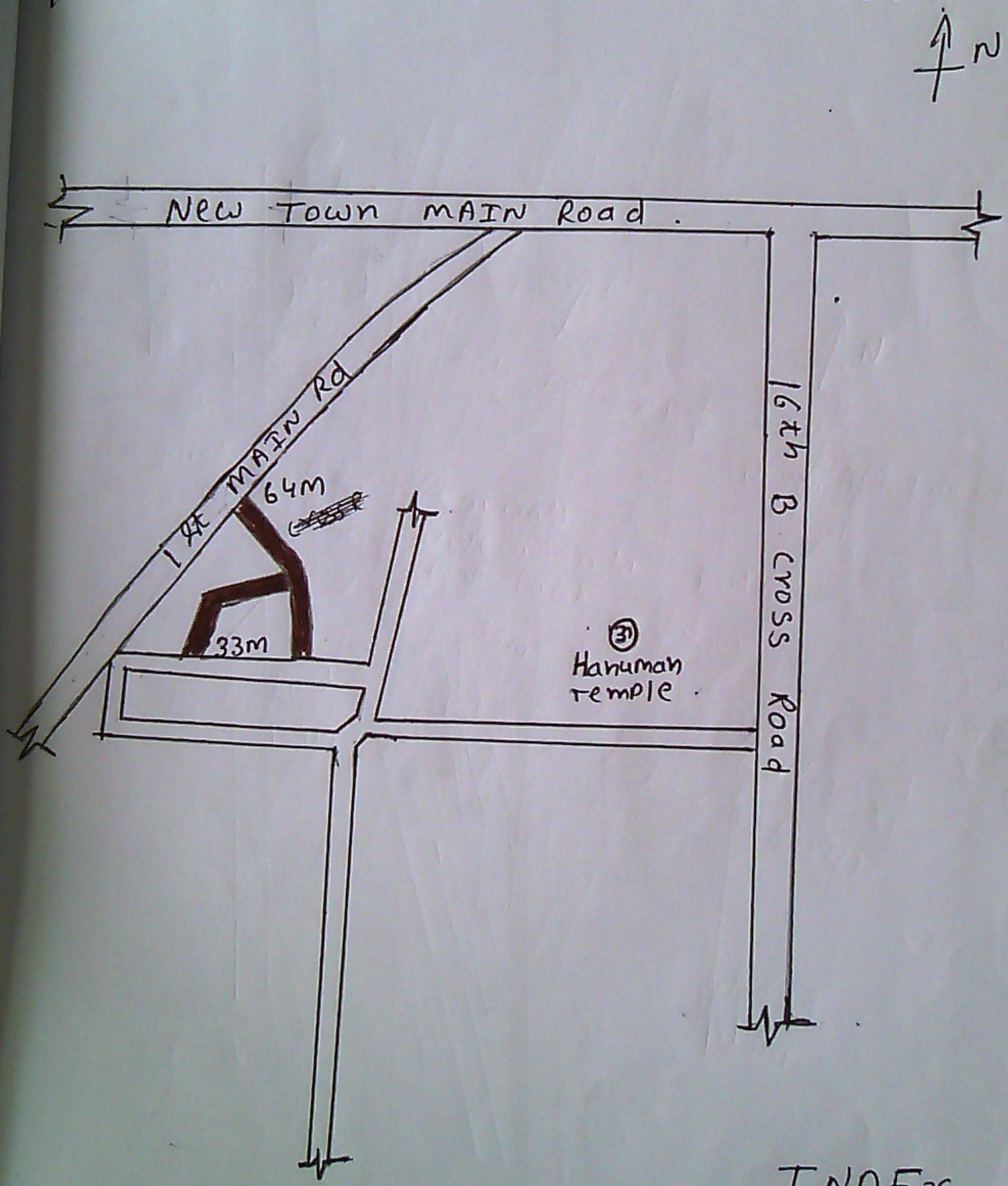
Administrative Sanction for Rs. ....40.00 lakhs..
.....forty lakhs only.....
.....
is accorded under head P-3296
.....14th finance Commission works
.....
Registered as SE(Y)/TS/ subject
to conditions contained in enclosed memo
No KE/YNK/AS/74/2019-20 dated 9/1/2020

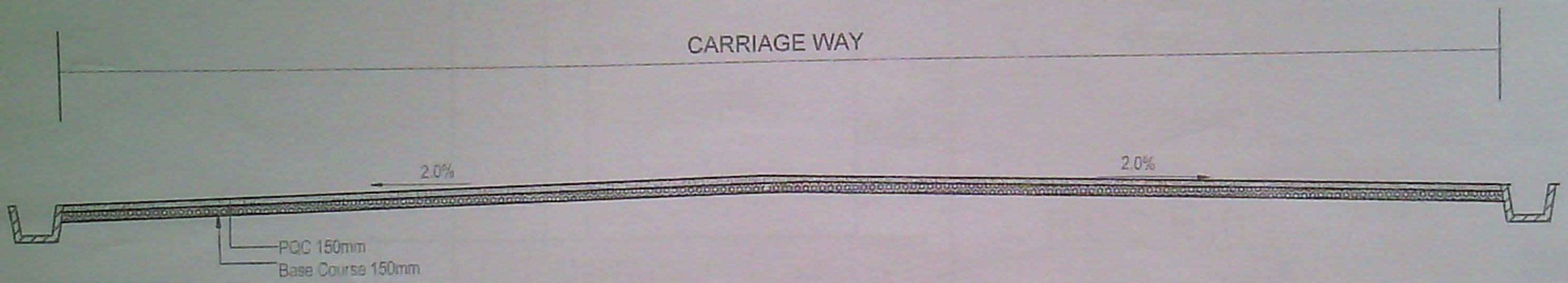
Executive Engineer

Received for Rs. 40,00,000/-
Rupees FORTY LAKH ONLY
Under P 3296
Job Code No 004-20-000045
Registered as SE(Y)/TS/ 29 / 19-20 subject
to conditions contained in enclosed memo
No 29 / 19-20 Dated: 30/01/2020

30/01/2020

Construction of CC Roads in ward NO-04 Yelahanka Sattellite town sub division.





Proposed typical Cross section of Concrete Road

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೧೦೬